ORDER NO. SD7902-1513

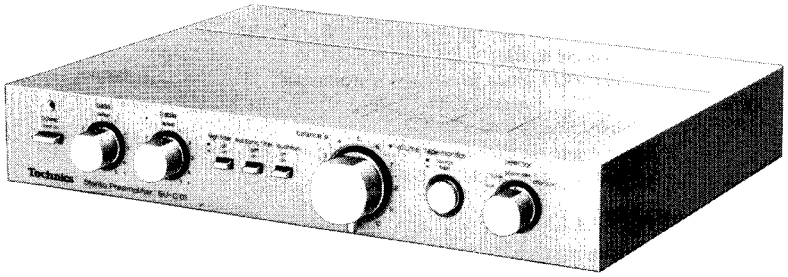
Service Manual

SU-C01

Stereo Preamplifier

SU-C01

(E), (EG), (X), (XA), (XAL), (XGH), (XGF), (XE), (EB)



* The models SU-C01 (E, EG) are available in Scandinavia and European only.
* The models SU-C01 (X, XA) are available in Asia, Latin America, Middle East and Africa only.
* The model SU-C01 (XAL) is available in Australia only.
* The model SU-C01 (XGH) is available in Holland only.
* The model SU-C01 (XGF) is available in France only.
* The model SU-C01 (XE) is available in United Kingdom only.
* The model SU-C01 (EB) is available in Belgium only.

TECHNICAL SPECIFICATIONS (Specifications are subject to change without notice for further improvement.)

(DIN 45 500)

AMPLIFIER SECTION

Input sensitivity & impedance		
PHONO MM		2.5 mV/47 kΩ
MC		100μV/47 Ω
TUNER, AUX		150 mV/47 kΩ
TAPE		150 mV/47 kΩ
PHONO maximum input voltage (1 kHz, RMS)		
PHONO MM		200 mV
MC		8 mV
Total harmonic distortion		
TUNER, AUX, TAPE		0.003% (at 3V output and max, volume)
PHONO MM, MC		0.005% (at 3V output and −20 dB volume)
S/N		
rated output	**PHONO MM**	75 dB (IHF, A: 88 dB)
	MC	66 dB (IHF, A: 78 dB)
	TUNER, AUX	87 dB (IHF, A: 100 dB)
−26 dB output	**PHONO MM**	63 dB
	MC	63 dB
	TUNER, AUX	65 dB
Frequency response		
PHONO		RIAA standard curve ±0.2 dB (30 Hz ~ 15 kHz)
TUNER, AUX, TAPE		3 Hz ~ 100 kHz, −1 dB +0, −0.05 dB, 20 Hz ~ 20 kHz
Tone controls	**Bass**	50 Hz, +10 dB ~ −10 dB
	Treble	20 kHz, +10 dB ~ −10 dB
Subsonic filter		30 Hz, −12 dB/oct.
High filter		7 kHz, −6 dB/oct.
Loudness control (volume at −30 dB)		50 Hz, +9 dB
Output voltage		
OUTPUT	**rated**	1 V
	maximum	7 V
REC OUT		150 mV
Channel balance, AUX 250 Hz ~ 6,300 Hz		±1 dB
Channel separation, AUX 1 kHz		55 dB

GENERAL

Power consumption	9 W
Power supply	AC 50/60 Hz, 110, 120, 220, 240V
Dimensions (W x H x D)	297 x 49 x 241 mm (11-11/16" x 1-15/16" x 9-1/4")
Weight	3 kg (6.6 lb)

TECHNISCHE DATEN (Spezifikationen können infolge von Verbesser ungen ohne Ankündigung geändert werden)

(DIN 45 500)

VERSTÄRKERTEIL

Eingangsempfindlichkeit & impedanz		
PHONO MM		2,5 mV/47kΩ
MC		100μV/47Ω
TUNER, AUX		150 mV/47 kΩ
TAPE		150 mV/47 kΩ
PHONO maximale Eingangsspannungen (1 kHz, RMS)		
PHONO MM		200 mV
MC		8 mV
Gesamtklirrfaktor		
TUNER, AUX, TAPE		0,003% (bei 3 V Ausgang und größter Lautstärke)
PHONO MM, MC		0,005% (bei 3 V Ausgang und −20 dB Lautstärke)
Rauschabstand		
Nennleistung	**PHONO MM**	75 dB (IHF, A: 88 dB)
	MC	66 dB (IHF, A: 78 dB)
	TUNER, AUX	87 dB (IHF, A: 100 dB)
−26 dB Leistung	**PHONO MM**	63 dB
	MC	63 dB
	TUNER, AUX	65 dB
Frequenzgang		
PHONO		RIAA standardkurve ±0,2 dB (30 Hz ~ 15 kHz)
TUNER, AUX, TAPE		3 Hz ~ 100 kHz, −1 dB +0, −0,05 dB, 20 Hz ~ 20 kHz
Klangregler	**Bass (BÄSSE)**	50 Hz, +10 dB ~ −10 dB
	Treble (HÖHEN)	20 kHz, +10 dB ~ 10 dB
Unterschallfilter		30 Hz, −12 dB/oct.
Höhenfilter		7 kHz, −6 dB/oct.
Gehörichtige Lautstärke (Lautstärke bei −30 dB)		50 Hz, +9 dB
Ausgangsspannungen		
OUTPUT	**Nennleistung**	1 V
	max.	7 V
REC OUT		150 mV
Kanalabweichung, AUX 250 Hz ~ 6300 Hz		±1 dB
Kanaltrennung, AUX 1 kHz		55 dB

ALLGEMEINE DATEN

Leistungsaufnahme	9 W
Netzspannung (50/60 Hz)	110, 120, 220, 240V
Abmessungen (B x H x T)	297 x 49 x 241 mm
Gewicht	3 kg

Technics

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

SU-C01

CARACTERISTIQUES TECHIQUES (Sujet à changement sans préaris.)

(DIN 45 500)

PARTIE AMPLIFICATEUR

Sensibilité et impédance d'entrée

PHONO MM	2,5 mV/47 kΩ
MC	100μV/47 Ω
TUNER, AUX	150 mV/47 kΩ
TAPE	150 mV/47 kΩ

Tension maximum d'entrée PHONO (1 kHz, eff.)

PHONO MM	200 mV
MC	8 mV

Distorsion harmonique totale

TUNER, AUX, TAPE	0,003% (Sortie 3 V, Volume max.)
PHONO MM, MC	0,005% (Sortie 3 V, Volume −20 dB)

Rapport signal/bruit

pour la puissance nominale

PHONO MM	75 dB (IHF, A: 88 dB)
MC	66 dB (IHF, A: 78 dB)
TUNER, AUX	87 dB (IHF, A: 100 dB)

puissance de −20dB

PHONO MM	63 dB
MC	63 dB
TUNER, AUX	65 dB

Réponse de fréquence

PHONO	Courbe nominale RIAA ±0,2 dB (30 Hz ~ 15 kHz)
TUNER, AUX, TAPE	3 Hz ~ 100 kHz, −1 dB +0, −0,05 dB, 20 Hz ~ 20 kHz

Réglage de la tonalité

Bass (graves)	50 Hz, +10 dB ~ −10 dB
Treble (aigus)	20 kHz, +10 dB ~ −10 dB
Filtrage infra-acoustique	30 Hz, −12 dB/oct.
Filtre d'aigu	7 kHz, −6 dB/oct.
Correction physiologique (volume à −30 dB)	50 Hz +9 dB

Tension de sortie

OUTPUT Pour la puissance nominale	1 V
max.	7 V
REC OUT	150 mV
Equilibrage de canaux, AUX 250 Hz ~ 6300 Hz	±1 dB
Séparation des canaux AUX 1 kHz	55 dB

GENERALITES

Consommation	9 W
Allmentation (50/60 Hz)	110, 120, 220, 240V
Dimensions (L x H x Pr)	297 x 49 x 241 mm
Poids	3 kg

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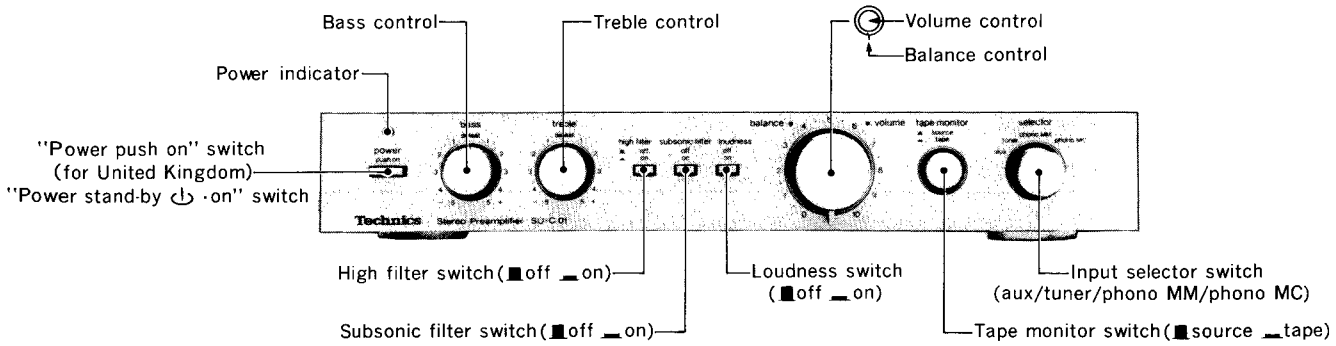
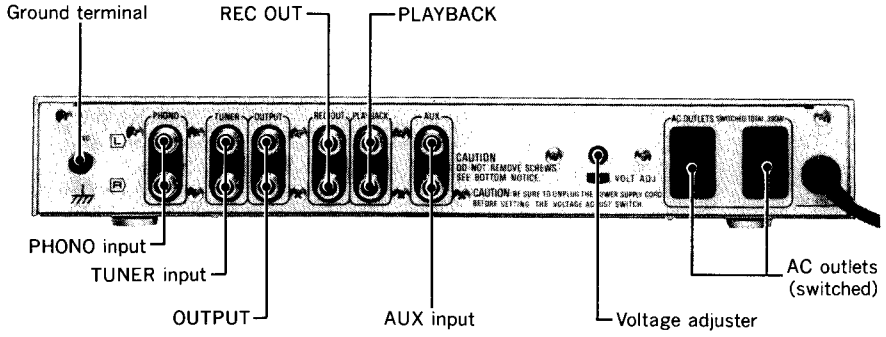
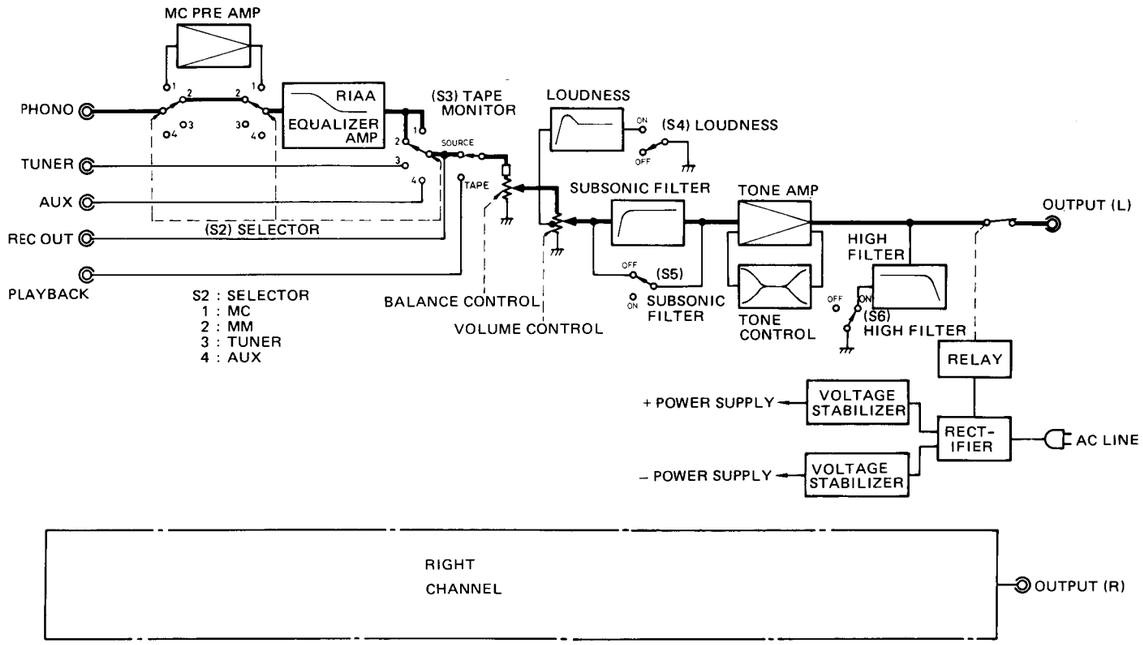
■ LOCATION OF CONTROLS





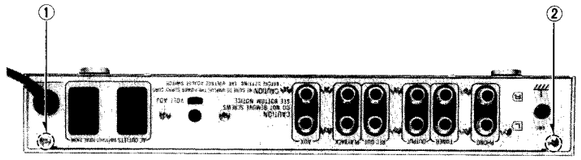
* The products for other destinations except (XA) and (X) are not equipped with AC outlets.

■ BLOCK DIAGRAM

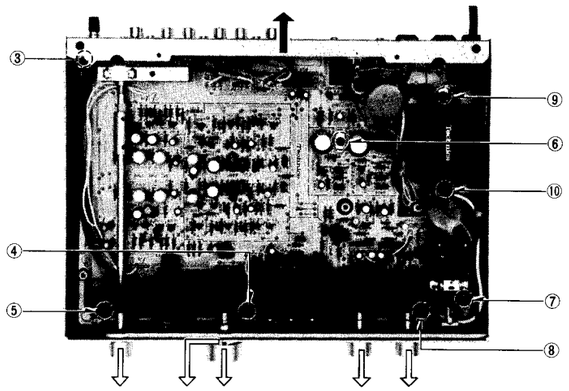


■ HOW TO REMOVE THE PRINTED CIRCUIT BOARD

1. Remove the bottom board from the set.
2. Pull out the knobs from the front panel. (Arrow ⟹ in Photo 2)
3. Remove the 6 setscrews (③ ~ ⑧ in Photo 2) used to secure the printed circuit board on the cabinet.
4. Remove the 2 setscrews (⑨, ⑩ in Photo 2) used to secure the power transformer on the cabinet.
5. Remove the 2 setscrews (①, ② in Photo 1) used to fasten the rear panel.
6. Pull the printed circuit board backwards along with the rear panel. Then the printed circuit board can be removed from the cabinet. (Refer to photo 2)
7. When installing the printed circuit board, reverse the procedure 1 ~ 6.

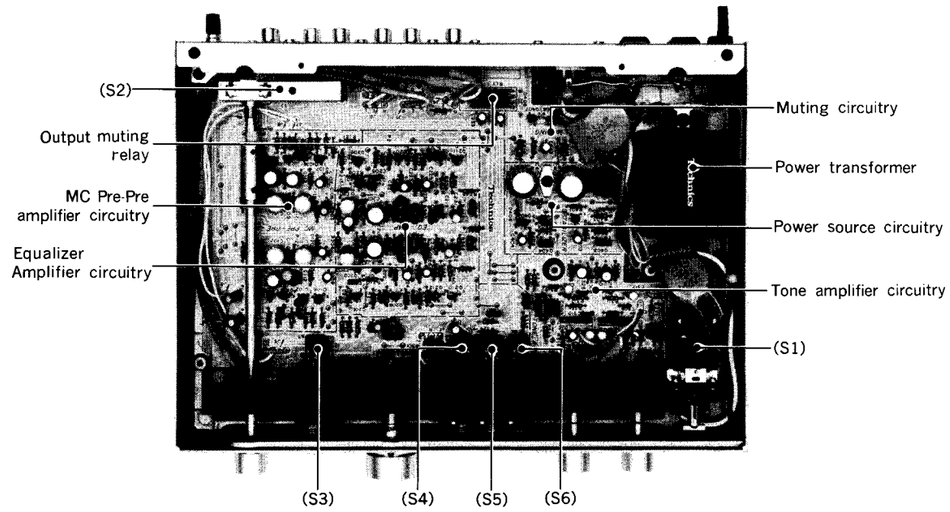


[PHOTO 1]



[PHOTO 2]

■ PRINTED CIRCUIT BOARD VIEW



■ REPLACEMENT PARTS LIST ..... Electric Parts

NOTES:
1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
2. ⚠ indicates that only parts specified by the manufacturer be used for safety.

Ref. No.		Part No.	Part Name & Description
INTEGRATED CIRCUITS			
IC301, 302		SVIM5213CO	IC, Tone Amplifier
TRANSISTORS			
Q101, 102		2SC2385-G	Transistor, MC Pre Amplifier (Use in ranks F or G) } Use pair
Q103, 104		2SA978-G	Transistor, MC Pre Amplifier (Use in ranks F or G) } ranks
Q105, 106		**2SA902S-F**	Transistor, MC Pre Amplifier (Use in ranks F or G) } Use pair
Q107, 108		**2SC1328-T**	Transistor, MC Pre Amplifier (Use in ranks S, T or U) } ranks
Q201, 203		2SA1092-T	Transistor, Differential Amplifier (Use in ranks T or U) } Use pair
Q202, 204		2SA1092-T	Transistor, Differential Amplifier (Use in ranks T or U) } ranks
Q205, 206		**2SC1328-T**	Transistor, Current Mirror (Use in ranks S, T or U)
Q207, 208		**2SC1328-T**	Transistor, Equalizer Amplifier (Use in ranks S or T)
Q209, 210		2SC1815-G	Transistor, Equalizer Output Amplifier (Use in ranks G or B) } Use pair
Q211, 212		2SA1015-O	Transistor, Equalizer Output Amplifier (Use in ranks Y or O) } ranks
Q401, 405		2SA1015-O	Transistor, Constant Current & LED Switching (Use in ranks Y or O)
Q402, 406, 407, 408		2SC1815-O	Transistor, Constant Current & Relay Drive (Use in ranks Y or O)
Q403		2SC1567-Q	Transistor, Stabilizer (Use in ranks Q or R)
Q404		2SA794-Q	Transistor, Stabilizer (Use in ranks Q or R)
DIODES			
D201, 202		MA150	Diode, Current Mirror
D401, 402	⚠	SVDMI151U	Diode, Rectifier
D403, 404		SVDMA26-2	Diode, Stabilizer
D405, 406		SVDHZ20L-1	Diode, Zener 20V
D407, 408		MA150	Diode, Rectifier & Noise Killer
D409		SVDGD4203SRD	Light Emitting Diode, Power Indicator
TRANSFORMER			
T1	⚠	SLT5J67-W	Transformer, Power

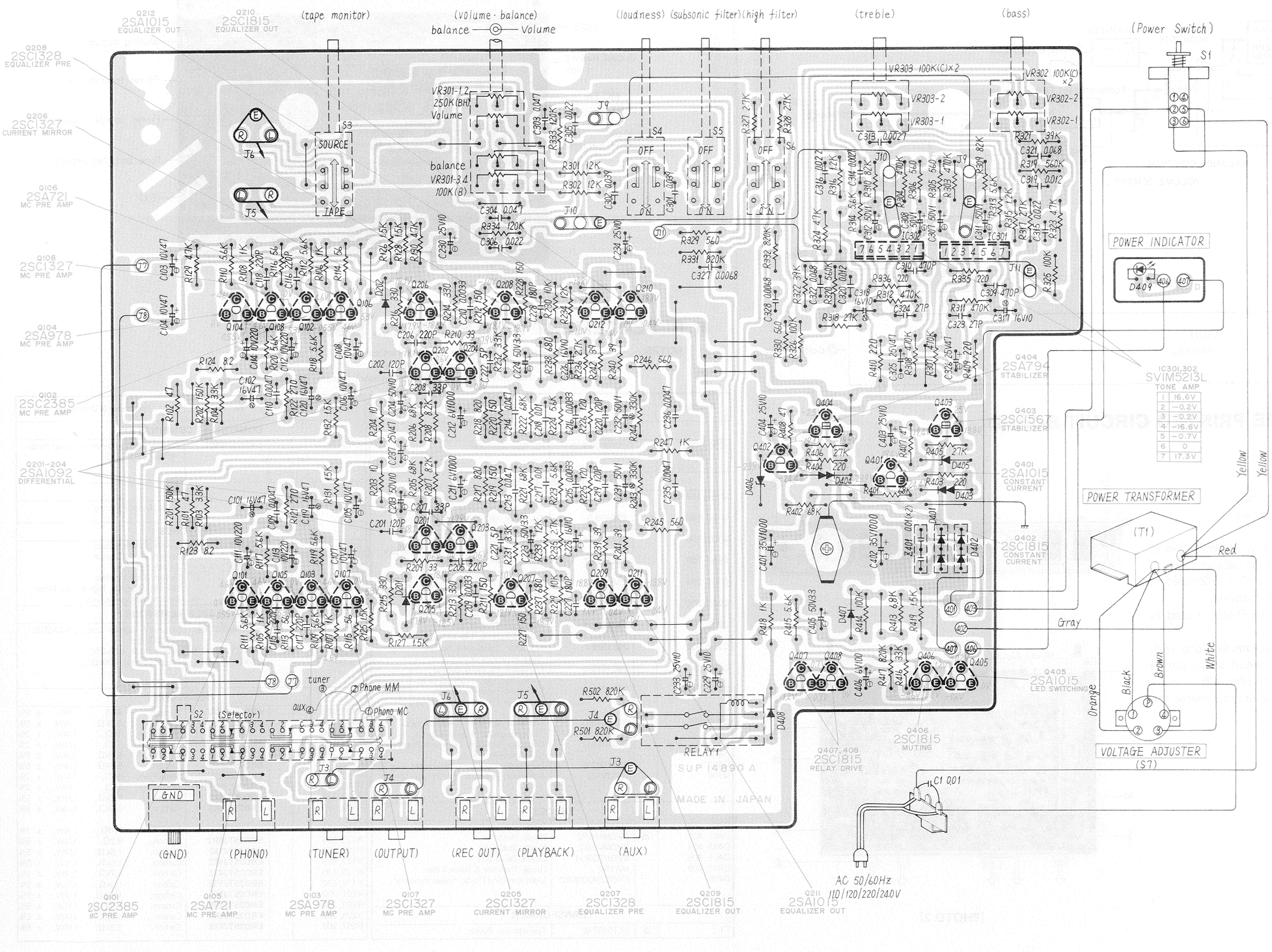
Ref. No.		Part No.	Part Name & Description			
COMPONENT COMBINATION						
Z401		EXRFS203ZS	Component Combination, Power Noise Killer, 0.01μF (X2)			
RELAY						
RELAY 1		SSY9	Relay, Output Muting			
SWITCHES						
S1	⚠	SSH113	Switch, Power Source			
S1 (X, XA) only	⚠	SSH119	Switch, Power Source			
S2		SSR133	Switch, Selector			
S3		SSH83	Switch, Tape Monitor			
S4, 5, 6		SSH361	Switch, Loudness, High & Low Filter			
S7	⚠	ESE372	Switch, Voltage Adjuster			
VARIABLE RESISTORS						
VR301		EWKP8AS01386	Volume & Balance Control, 100kΩ(B)/250kΩ(BH)			
VR302		EWKGYY035C15	Bass Control, 100kΩ(C)			
VR303		EWKGY0035C15	Treble Control, 100kΩ(C)			
RESISTORS						
R101, 102		**ERD25TJ470**	Carbon,	47Ω,	1/4W,	± 5%
R103, 104		**ERD25TJ332**	Carbon,	3.3kΩ,	1/4W,	± 5%
R105, 106		ERO25CKG1001	Metal Film,	1kΩ,	1/4W,	± 2%
R107, 108		ERO25CKG1001	Metal Film,	1kΩ,	1/4W,	± 2%
R109, 110		**ERD25TJ562**	Carbon,	5.6kΩ,	1/4W,	± 5%
R111, 112		**ERD25TJ562**	Carbon,	5.6kΩ,	1/4W,	± 5%
R113, 114		ERO25CKG56RO	Metal Film,	56Ω,	1/4W,	± 2%
R115, 116		ERO25CKG56RO	Metal Film,	56Ω,	1/4W,	± 2%
R117, 118		**ERD25TJ562**	Carbon,	5.6kΩ,	1/4W,	± 5%
R119, 120		**ERD25TJ562**	Carbon,	5.6kΩ,	1/4W,	± 5%
R121, 122		ERO25CKF2700	Metal Film,	270Ω,	1/4W,	± 1%
R123, 124		**ERD25TJ8R2**	Carbon,	8.2Ω,	1/4W,	± 5%
R125, 126		**ERD25TJ152**	Carbon,	1.5kΩ,	1/4W,	± 5%
R127, 128		**ERD25TJ152**	Carbon,	1.5kΩ,	1/4W,	± 5%
R129, 130		**ERD25TJ472**	Carbon	4.7kΩ,	1/4W,	± 5%
R131, 132		**ERD25TJ152**	Carbon,	1.5kΩ,	1/4W,	± 5%
R201, 202		**ERD25TJ154**	Carbon,	150kΩ,	1/4W,	± 5%
R203, 204		**ERD25TJ100**	Carbon,	10Ω,	1/4W,	± 5%
R205, 206		**ERD25TJ683**	Carbon,	68kΩ,	1/4W,	± 5%
R207, 208		**ERD25TJ822**	Carbon,	8.2kΩ,	1/4W,	± 5%

(Continued to Paga 11)

SU-C01

■ PRINTED CIRCUIT BOARD WIRING VIEW

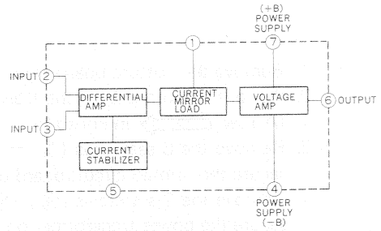
Earth (Ground) Lines



Notes:

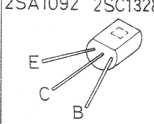
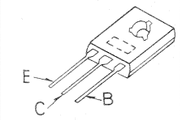
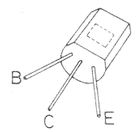
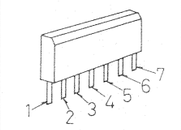
1. **S1:** Power switch in **"on"** position.
2. **S2:** Input selector switch in **"phono MC"** position.
3. **S3:** Tape monitor switch in **"source"** position.
4. **S4:** Loudness switch in **"off"** position
5. **S5:** Subsonic filter switch in **"off"** position.
6. **S6:** High filter switch in **"off"** position.
7. **S7:** Voltage adjuster switch in **"240V"** position.
   ① 110V ↔ ② 120V ↔ ③ 220V ↔ ④ 240V
8. Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
   Standards values ( )
9. The ⓢ mark has been used for the indication of specified parts for an assurance of safety, but it has been changed to ⚠ mark. When replacing parts, be sure to use parts with correct numbers with reference to the circuit drawing or the repair parts list.
   ⓢ ⟶ ⚠ (new mark)
10. To represent transistors, Q is used instead of TR (Ex. TR1 ⟶ Q1)
11. Phono signal lines of left channel.
12. This schematic diagram may be modified at any time with the development of new technology.

■ BLOCK DIAGRAM OF IC

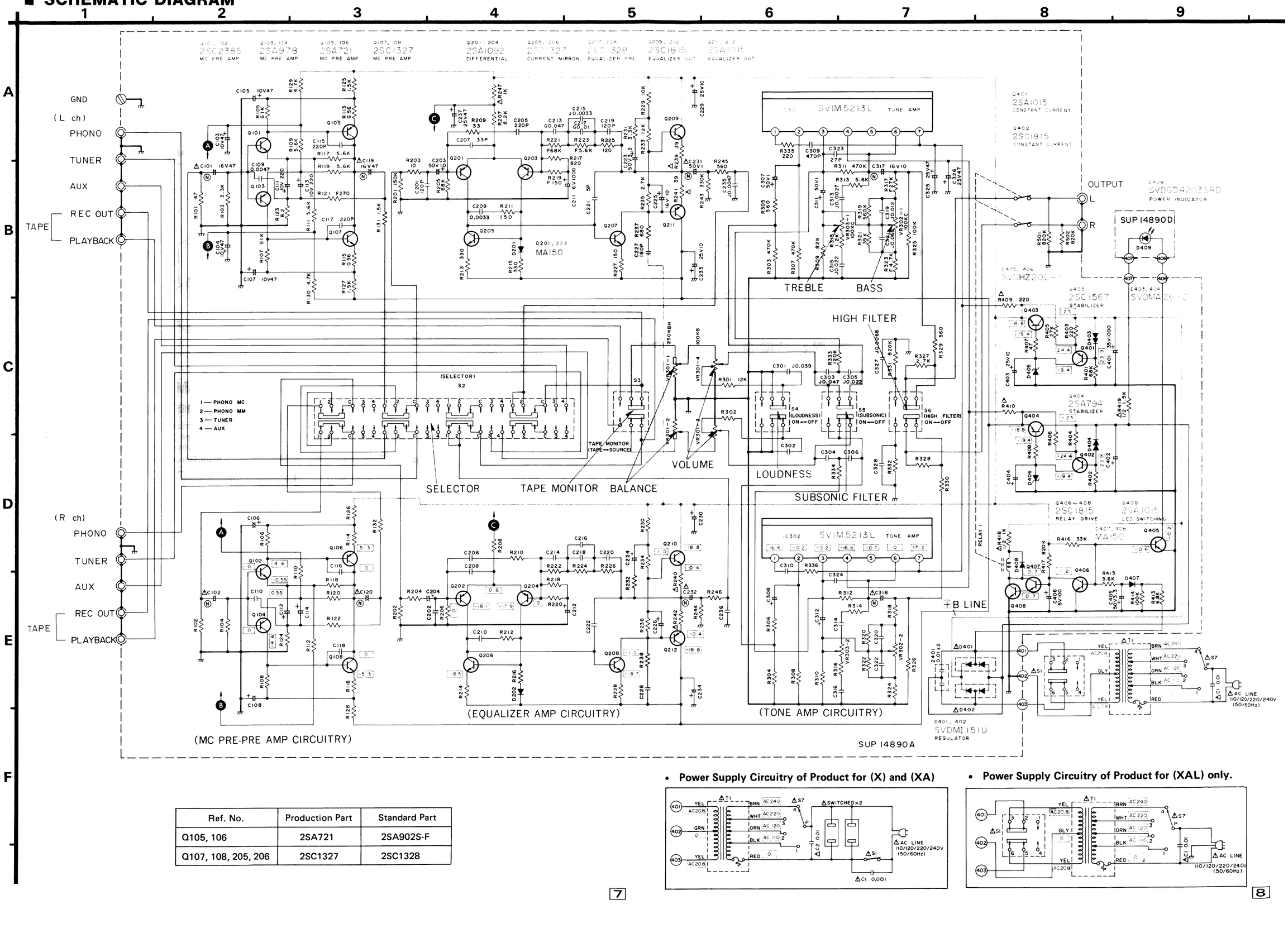


IC301, 302
(SVIM5213L)
Tone Amplifier

■ TERMINAL GUIDE OF TRANSISTOR & IC

2SA721 , 2SC1327 2SA1015 , 2SC1815 2SA1092 2SC1328	2SA794 , 2SC1567
	
2SA978 , 2SC2385	SVIM5213L
	

■ SCHEMATIC DIAGRAM

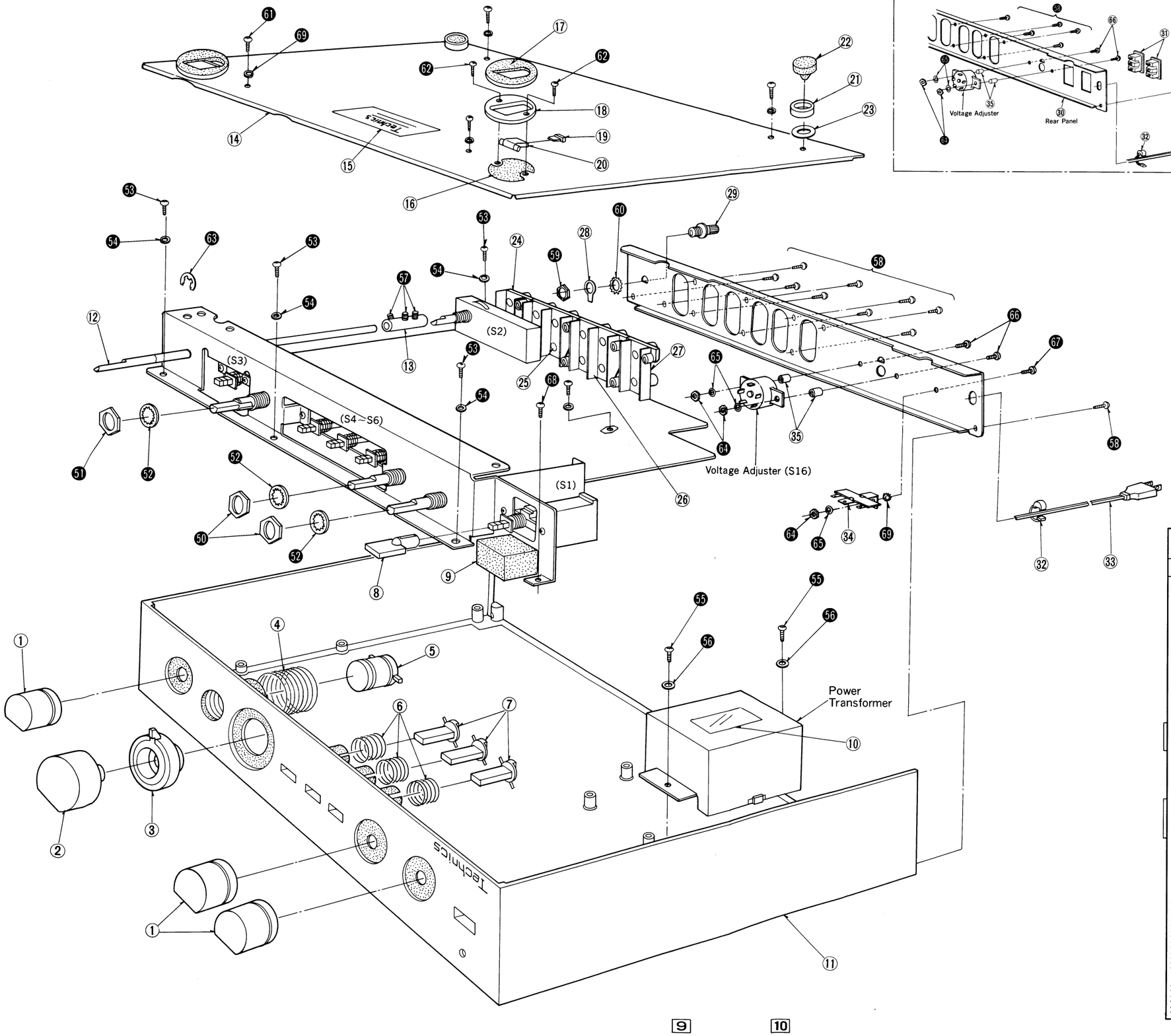


Ref. No.	Production Part	Standard Part
Q105, 106	2SA721	2SA902S-F
Q107, 108, 205, 206	2SC1327	2SC1328

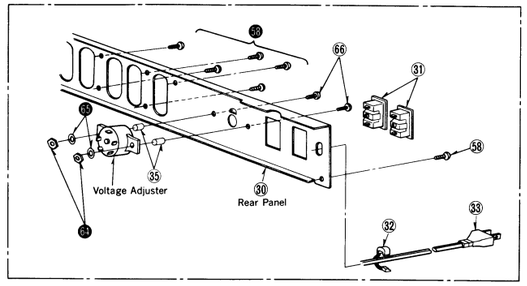
- **Power Supply Circuitry of Product for (X) and (XA)**

- **Power Supply Circuitry of Product for (XAL) only.**

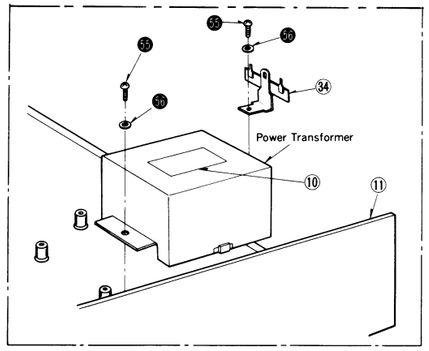
■ EXPLODED VIEWS



• Available in [X] and [XA] only



• Available in [X] and [XA] only



■ REPLACEMENT PARTS LIST ..... (Cabinet and Chassis Parts)

NOTES : 1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
2. ⚠ indicates that only parts specified by the manufacturer be used for safety.

Ref. No.		Part No.	Part Name & Description
CABINET and CHASSIS PARTS			
1		SBN785	Knob, Bass, Treble, Selector
2		SBN781	Knob, Volume
3		SBN783-1	Knob, Balance
4		SUS145	Spring, Tape Monitor Switch
5		SBC203	Button, Tape Monitor Switch
6		SUS123-2	Spring, High Filter, Subsonic Filter Loudness Switch
7		SBC205-1	Button, High Filter, Subsonic Filter Loudness Switch
8		SBC207-1	Button, Power Switch
9		SHG1491	Rubber Cushion, Power Switch
10		SGB497-1	Label, Technics
11		SGWUC01D	Panel, with Cabinet
11 [XE] only		SGWUC01E	Panel, with Cabinet
11 [X, XA, XAL] only		SGWUC01M	Panel, with Cabinet
12		SUB23	Shaft, Selector Switch
13		SUBA21-1S	Coupler, Selector Switch Shaft
14		SKU7291	Bottom Board
15 [E, XGF, XGH, EB, EG]		SGT19490	Name Plate
15 [XE]		SGT19450	Name Plate
15 [X, XA, XAL]		SGT19510	Name Plate
16		SHS2411	Fiber, Front Side Feet
17		SHG1485	Rubber, Cushion, Front Feet
18		SKL217	Foot, Front Side
19		SHG1493	Rubber Cushion, Stand Feet
20		SKX259	Stand Foot, Front Side
21		SGX803	Ring, Rear Side Feet
22		SHG1487	Foot, Rear Side
23		SHR5013	Washer, Rear Side Feet
24		SJF3225SA	Terminal, Phono
25		SJF3431-2SA	Terminal, Tuner & Output
26		SJF3431-1SA	Terminal, Rec Out & Playback
27		SJF3225SA	Terminal, Aux
28		SJT215	Lug, Ground
29		SJF4101-1	Terminal, Ground

(Continued from Page 4)

■ REPLACEMENT PARTS LIST ..... Electrical Parts

NOTES : 1. Part numbers are indicated on most mechanical parts.
Please use this part number for parts orders.
2. ⚠ indicates that only parts specified by the manufacturer be used for safety.

Ref. No.		Part No.	Part Name & Description
R209, 210		**ERD25TJ330**	Carbon, 33Ω, 1/4W, ± 5%
R211, 212		**ERD25TJ151**	Carbon, 150Ω, 1/4W, ± 5%
R213, 214		**ERD25TJ331**	Carbon, 330Ω, 1/4W, ± 5%
R215, 216		**ERD25TJ331**	Carbon, 330Ω, 1/4W, ± 5%
R217, 218		**ERD25TJ821**	Carbon, 820Ω, 1/4W, ± 5%
R219, 220		ERO25CKF1500	Metal Film, 150Ω, 1/4W, ± 1%
R221, 222		ERO25CKF6802	Metal Film, 68kΩ, 1/4W, ± 1%
R223, 224		ERO25CKF5601	Metal Film, 5.6kΩ, 1/4W, ± 1%
R225, 226		**ERD25TJ121**	Carbon, 120Ω, 1/4W, ± 5%
R227, 228		**ERD25TJ151**	Carbon, 150Ω, 1/4W, ± 5%
R229, 230		**ERD25TJ103**	Carbon, 10kΩ, 1/4W, ± 5%
R231, 232		**ERD25TJ332**	Carbon, 3.3kΩ, 1/4W, ± 5%
R233, 234		**ERD25TJ123**	Carbon, 12kΩ, 1/4W, ± 5%
R235, 236		**ERD25TJ272**	Carbon, 2.7kΩ, 1/4W, ± 5%
R237, 238		**ERD25TJ681**	Carbon, 680Ω, 1/4W, ± 5%
R239, 240	⚠	ERD25FJ390	Carbon, 39Ω, 1/4W, ± 5%
R241, 242	⚠	ERD25FJ390	Carbon, 39Ω, 1/4W, ± 5%
R243, 244		**ERD25TJ334**	Carbon, 330kΩ, 1/4W, ± 5%
R245, 246		**ERD25TJ561**	Carbon, 560Ω, 1/4W, ± 5%
R247	⚠	ERD25FJ102	Carbon, 1kΩ, 1/4W, ± 5%
R301, 302		**ERD25TJ123**	Carbon, 12kΩ, 1/4W, ± 5%
R303, 304		**ERD25TJ474**	Carbon, 470kΩ, 1/4W, ± 5%
R305, 306		**ERD25TJ561**	Carbon, 560Ω, 1/4W, ± 5%
R307, 308		**ERD25TJ474**	Carbon, 470kΩ, 1/4W, ± 5%
R309, 310		**ERD25TJ823**	Carbon, 82kΩ, 1/4W, ± 5%
R311, 312		**ERD25TJ474**	Carbon, 470kΩ, 1/4W, ± 5%
R313, 314		**ERD25TJ562**	Carbon, 5.6kΩ, 1/4W, ± 5%
R315, 316		**ERD25TJ122**	Carbon, 1.2kΩ, 1/4W, ± 5%
R317, 318		ERO25CKF2702	Metal Film, 27kΩ, 1/4W, ± 1%
R319, 320		**ERD25TJ564**	Carbon, 560kΩ, 1/4W, ± 5%
R321, 322		**ERD25TJ393**	Carbon, 39kΩ, 1/4W, ± 5%
R323, 324		ERO25CKF4701	Metal Film, 4.7kΩ, 1/4W, ± 1%
R325, 326		**ERD25TJ104**	Carbon, 100kΩ, 1/4W, ± 5%
R327, 328		**ERD25TJ272**	Carbon, 2.7kΩ, 1/4W, ± 5%
R329, 330		**ERD25TJ561**	Carbon, 560Ω, 1/4W, ± 5%
R331, 332		**ERD25TJ824**	Carbon, 820kΩ, 1/4W, ± 5%
R333, 334		**ERD25TJ124**	Carbon, 120kΩ, 1/4W, ± 5%
R335, 336		**ERD25TJ221**	Carbon, 220Ω, 1/4W, ± 5%
R401, 402		**ERD25TJ683**	Carbon, 68kΩ, 1/4W, ± 5%
R403, 404		**ERD25TJ221**	Carbon, 220Ω, 1/4W, ± 5%
R405, 406		**ERD25TJ273**	Carbon, 27kΩ, 1/4W, ± 5%
R407, 408		**ERD25TJ470**	Carbon, 47Ω, 1/4W, ± 5%
R409, 410	⚠	ERD25FJ221	Carbon, 220Ω, 1/4W, ± 5%
R413		**ERD25TJ682**	Carbon, 6.8kΩ, 1/4W, ± 5%
R414		**ERD25TJ104**	Carbon, 100kΩ, 1/4W, ± 5%
R415		**ERD25TJ562**	Carbon, 5.6kΩ, 1/4W, ± 5%
R416		**ERD25TJ333**	Carbon, 33kΩ, 1/4W, ± 5%
R417		**ERD25TJ824**	Carbon, 820kΩ, 1/4W, ± 5%
R418	⚠	ERD50FJ102	Carbon, 1kΩ, 1/2W, ± 5%
R419	⚠	ERD50FJ152	Carbon, 1.5kΩ, 1/2W, ± 5%
R501, 502		**ERD25TJ824**	Carbon, 820kΩ, 1/4W, ± 5%

Ref. No.		Part No.	Part Name & Description
CAPACITORS			
C1	⚠	ECKDHS103SE2	Ceramic, 0.01μF, 400VAC, +50 −20%
C1 [X, XA] only	⚠	ECKDDS102MD	Ceramic, 0.001μF, 250VAC, ±20%
C2 [X, XA] only	⚠	ECKDHS103SE2	Ceramic, 0.01μF, 400VAC, +50 −20%
C101, 102	⚠	ECEA16NA47	Non-Polar Electrolytic, 47μF, 16V
C103, 104		ECEA10Z47	Electrolytic, 47μF, 10V
C105, 106		**ECEA1AS470**	Electrolytic, 47μF, 10V
C107, 108		**ECEA1AS470**	Electrolytic, 47μF, 10V
C109, 110		ECKD1H472MD	Ceramic, 0.0047μF, 50V, ±20%
C111, 112		**ECEA1AS221**	Electrolytic, 220μF, 10V
C113, 114		**ECEA1AS221**	Electrolytic, 220μF, 10V
C115, 116		ECCD1H221K	Ceramic, 220pF, 50V, ±10%
C117, 118		ECCD1H221K	Ceramic, 220pF, 50V, ±10%
C119, 120	⚠	ECEA16NA47	Non-Polar Electrolytic, 47μF, 16V
C201, 202		ECCD1H121K	Ceramic, 120pF, 50V, ±10%
C203, 204		**ECEA50M10R**	Electrolytic, 10μF, 50V
C205, 206		ECCD1H221K	Ceramic, 220pF, 50V, ±10%
C207, 208		ECCD1H330K	Ceramic, 33pF, 50V, ±10%
C209, 210		ECKD1H332MD	Ceramic, 0.0033μF, 50V, ±20%
C211, 212		ECEA0JS102	Electrolytic, 1000μF, 6.3V
C213, 214		ECQP1473GZ	Polypropylene, 0.047μF, 125V, ± 2%
C215, 216		ECQM1H332JZ	Polyester, 0.0033μF, 50V, ± 5%
C217, 218		ECQP1103GZ	Polypropylene, 0.01μF, 125V, ± 2%
C219, 220		ECCD1H121K	Ceramic, 120pF, 50V, ±10%
C221, 222		ECCD1H050K	Ceramic, 5pF, 50V, ±10%
C223, 224		**ECEA50Z3R3**	Electrolytic, 3.3μF, 50V
C225, 226		**ECEA1HS100**	Electrolytic, 10μF, 50V
C227, 228		ECCD1H181K	Ceramic, 180pF, 50V ±10%
C229, 230		**ECEA1HS100**	Electrolytic, 10μF, 50V
C231, 232	⚠	**ECEA50N1**	Non-Polar Electrolytic, 1μF, 50V
C233, 234		**ECEA1HS100**	Electrolytic, 10μF, 50V
C235, 236		ECQM1H472JZ	Polyester, 0.0047μF, 50V, ± 5%
C237		**ECEA1ES470**	Electrolytic, 47μF, 25V
C301, 302		ECQM1H393JZ	Polyester, 0.039μF, 50V ± 5%
C303, 304		ECQM1H473JZ	Polyester, 0.047μF, 50V, ± 5%
C305, 306		ECQM1H223JZ	Polyester, 0.022μF, 50V, ± 5%
C307, 308		**ECEA50M1R**	Electrolytic, 1μF, 50V,
C309, 310		ECKD1H471KB	Ceramic, 470pF, 50V, ±10%
C311, 312		**ECEA50Z1**	Electrolytic, 1μF, 50V
C313, 314		ECQM1H272JZ	Polyester, 0.0027μF, 50V, ± 5%
C315, 316		ECQM1H223JZ	Polyester, 0.022μF, 50V, ± 5%
C317, 318	⚠	**ECEA16N10**	Non-Polar Electrolytic, 10μF, 16V
C319, 320		ECQM1H123JZ	Polyester, 0.012μF, 50V, ± 5%
C321, 322		ECQM1H683JZ	Polyester, 0.068μF, 50V, ± 5%
C323, 324		ECCD1H270K	Ceramic, 27pF, 50V, ±10%
C325, 326		**ECEA1ES470**	Electrolytic, 47μF, 25V
C327, 328		ECQM1H682JZ	Polyester, 0.0068μF, 50V, ± 5%
C401, 402		**ECEA1VS102**	Electrolytic, 1000μF, 35V
C403, 404		**ECEA1HS100**	Electrolytic, 10μF, 50V
C405		**ECEA50Z3R3**	Electrolytic, 3.3μF, 50V
C406		**ECEA1AS101**	Electrolytic, 100μF, 10V

■ REPLACEMENT PARTS LIST .....(Cabinet and Chassis Parts)

Ref. No.		Part No.	Part Name & Description
30 [E, XE, XGF, XGH, EB, EG]		SGP1434A	Rear Panel
30 [X, XA]		SGP1434-1A	Rear Panel
30 [XAL]		SGP1434-2A	Rear Panel
31 [X, XA] only	⚠	SJSA66-1	Socket, AC Outlet
32 [E, X, XA, XGF, XGH, EB, EG]		SHR127	Bushing, AC Cord
32 [XE]		SHR129	Bushing, AC Cord
32 [XAL]		SHR131	Bushing, AC Cord
33 [E, XGF, XGH, EB, EG]	⚠	RJA23ZC	AC Cord
33 [X, XA]	⚠	SJA97	AC Cord
33 [XE]	⚠	RJA45ZC	AC Cord
33 [XAL]	⚠	QFC1207M	AC Cord
34		SJR205	Terminal Strip, 2 Pin
34 [X, XA] only		**RJR4B**	Terminal Strip, 2 Pin
35		SUDA41	Spacer, Voltage Adjuster Switch
SCREWS and WASHERS			
●		**XNS8**	Nut, Bass and Treble Control M'tg
●		**XNS9**	Nut, Volume and Balance Control M'tg
●		**XWC9B**	Washer, Bass, Treble and Volume Control
●		**XTB3+8BFZ**	Screw, Printed Circuit Board Ass'y M'tg

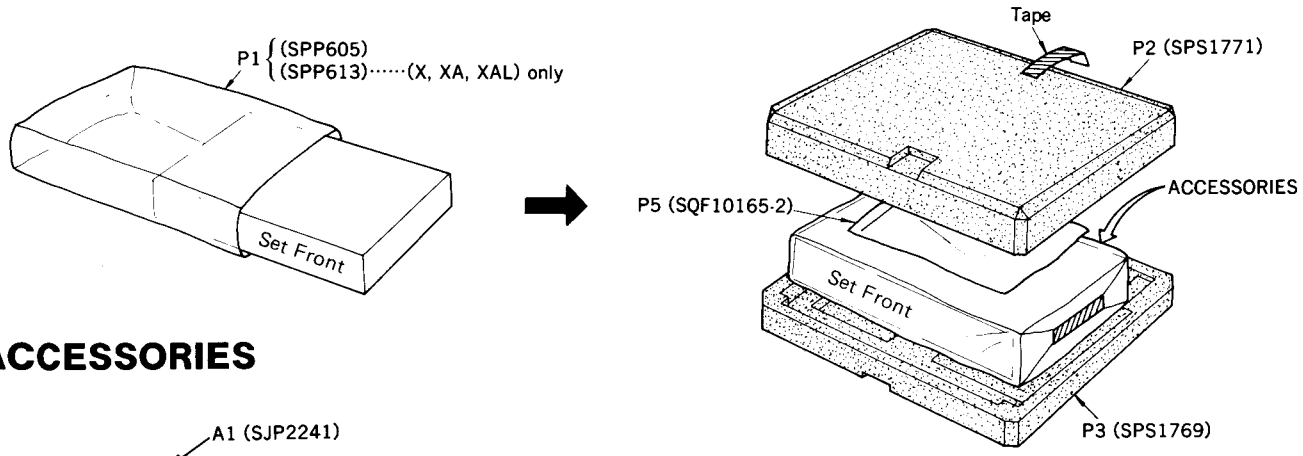
Ref. No.		Part No.	Part Name & Description
●		**XWC3B**	Washer, Printed Circuit Board Screw M'tg
●		**XTN3+8BFZ**	Screw, Power Transformer M'tg
●		**XWG3FZ**	Washer, Power Transformer Screw
●		XXE3D4FZ	Screw, Selector Switch Shaft Coupler M'tg
●		**XTB3+8BFN**	Screw, Rear Panel & Terminals M'tg
●		**XNS6**	Nut, Ground Terminal M'tg
●		**XWC6B**	Washer (Spring), Ground Terminal Nut
●		**XTB3+8BFN**	Screw, Bottom Board M'tg
●		**XSS3+6S**	Screw, Front Foot M'tg
●		**XUC5FT**	Circlip, Selector Switch Shaft M'tg
●		**XNG3 S**	Nut, Voltage Adjuster Switch & 2 pin Terminal Strip M'tg
●		**XWA3B**	Washer, Voltage Adjuster Switch & 2 pin Terminal Strip Nut
●		**XSB3+14BNS**	Screw, Voltage Adjuster Switch M'tg
●		**XSB3+8BNS**	Screw, 2 pin Terminal Strip M'tg
●		**XTB3+6BFZ**	Screw, Printed Circuit Board Ass'y M'tg
● [XAL] only		**XWC3B**	Washer, Bottom Board & 2 Pin Terminal Strip Screw

■ REPLECEMENT PARTS LIST ..... Accessories and Packing Parts

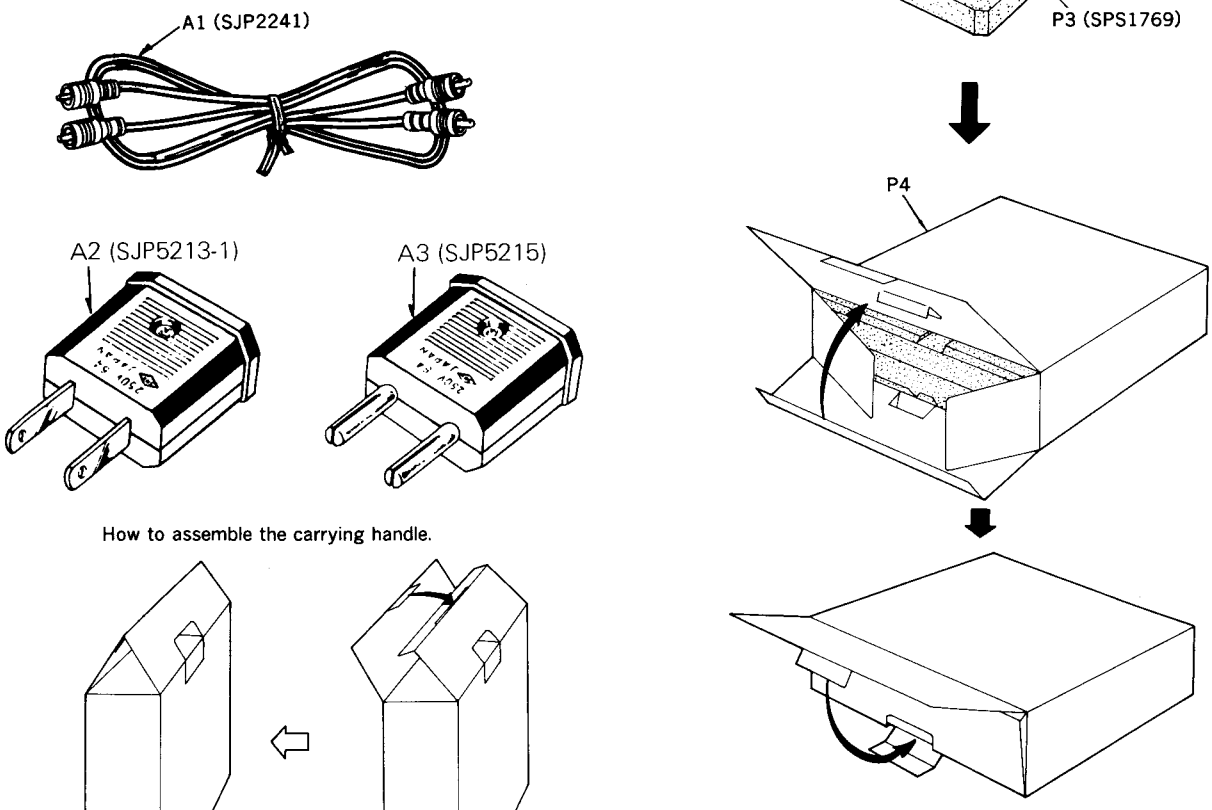
Ref. No.		Part No.	Part Name & Description
		ACCESSORIES	
A1		SJP2241	Cord, Connection
A2 [X, XA] only	⚠	SJP5213-1	Plug Adapter, AC power
A3 [X, XA] only	⚠	SJP5215	Plug Adapter, AC Power
		PACKING PARTS	
P1		SPP605	Polyethylene Bag
P1 [X, XA, XAL] only		SPP613	Polyethylene Bag
P2		SPS1771	Pad, Set Top Side
P3		SPS1769	Pad, Set Bottom Side
P4 [E]		SPG1913	Carton Box
P4 [XE, X, XA, XAL, XGH, EB, EG]		SPG1915	Carton Box
P4 [XGF]		SPG1883	Carton Box
P5		SQF10165-2	Instructions Book, Printed Matter

(E) and (EG) are available in Scandinavia and European only.
(XE) is available in United Kingdom only.
(EB) is available in Belgium only.
(XGF) is available in France only.
(XGH) is available in Holland only.
(X) and (XA) are available in Asia, Latin America, Middle East and Africa only.
(XAL) is available in Australia only.

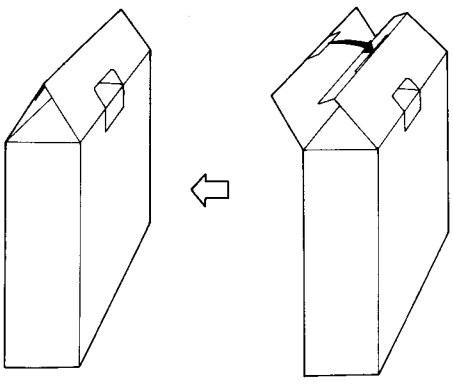
■ PACKINS



■ ACCESSORIES



How to assemble the carrying handle.



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